INDEX TO VOLUME 34 (NUMBERS 1 - 12 INCLUSIVE)--1972

The reference gives the month and page number.

ABALONE	ARSENAL
Japan:	Ocean fisheries, of; MarApr. p. 42.
Australia shipped in polystyrene boxes to;	Authorities and
SeptOct. p. 78.	ARTIFICIAL OCEAN
cultivateartificially; July-Aug. p. 53.	EPA testing new oil-spill clean-up equipment
	in; July-Aug. p. 8.
AFRICA	
Japanese trading firms compete for African shrimp;	ASIA
MarApr. p. 52.	Tuna conference hears management problems;
Mauritania extends territorial waters to 30 miles;	May-June. p. 55.
SeptOct. p. 63.	
Norway's first purse seiner to fish tuna off;	ATLANTIC
JanFeb. p. 46.	American participation in tuna fishery of Eastern
Senegal, the 1971 fisheries of; NovDec. p. 85.	
	tropical ; NovDec. p. 55. Gulf and South fisheries; MarApr. p. 9.
AGRICULTURE, DEPARTMENT OF	Salmon:
Food prices may rise $4\frac{1}{2}\%$ in 1972; MarApr. p. 3.	aided by recent actions; July-Aug. p. 2.
	British Columbia transplants successfully
ALASKA	to ; July-Aug. p. 56.
Japan's fishery team to survey in summer	experimental hatchery planned; NovDec. p. 11.
1973; NovDec. p. 82.	questions & answers on ; NovDec. p. 9.
Marine life abundant near site of proposed	questions a answers on , nov. bec. p. v.
Mill; MarApr. p. 25.	ATLANTIC COAST
NMFS:	Surf clam fishery, 1965-1969, 1970, and 1971;
Japanese crab factoryship off, agent boards;	July-Aug. p. 20; SeptOct. p. 36; NovDec. p. 48
July-Aug. p. 51.	oury riag. p. 20, Sept. Oct. p. 00, 1101. Dec. p. 10
participates in sea survey off North Slope; Sept	AUSTRALIA
Oct. p. 8.	Fisheries set value record in 1970-71; May-June
pot fishing workshops held in ; MarApr.	p. 62.
p. 6.	Investment prospects for fishing industry in ;
NOAA will chart waters and study fish re-	July-Aug. p. 56.
sources; JanFeb. p. 22.	Japan:
Salmon:	New Guinea fishery development, signed
catch, forecasts 1972; MarApr. p. 7.	protocol on; July-Aug. p. 56.
fishery licensing soars; MarApr. p. 7.	U.S. pearl venture profitable; July-Aug. p. 56.
in salt water, to raise; SeptOct. p. 8.	Lobster, rock, season looks promising; Mar
Shrimp:	Apr. p. 59.
catch tops 100 million pounds; JanFeb. p. 20.	Polysytrene boxes, ship live abalone in; Sept
Kodiak, no. 2 catch in; JanFeb. p. 21.	Oct. p. 78.
research aboard Soviet ship in Gulf of;	Oct. p. 10.
SeptOct. p. 45.	AUTHORS & TITLES
Voters approve limited entry into fisheries; Sept	AASTED, D.A. (and F.J. Hester and R.E. Green):
Oct. p. 8.	Experimental Drum Seining for Wetfish in
Oct. p. o.	California; JanFeb. p. 23.
'ALBATROSS IV'	BARKER, ALLAN M. (and John W. Ropes):
Groundfish survey off Eastern United States,	The Atlantic Surf Clam Fishery - 1970; Sept
conducts; MarApr. p. 10.	Oct. p. 36.
conducts, MarApr. p. 10.	(and John W. Ropes & George E. Ward Jr.):
ANTARCTIC	The Atlantic Coast Surf Clam Fishery - 1971;
Japan:	
krill fishing expedition to ocean; Nov	NovDec. p. 48. BROWN, BRADFORD E. (and Herbert Stern Jr.):
Dec. p. 82.	Status of Fish Stocks Off Northeastern United
Dec. p. 02.	States; NovDec. p. 41.
AQUACULTURE	BULLIS, HARVEY R., JR. (and Hilton Floyd):
	Double-Rig Twin Shrimp-Trawling Gear Used in
United Kingdom, genetic engineering to improve	Gulf of Mexico; NovDec. p. 26.
; Sept-Oct. p. 68.	
ARCTIC	BURCHARD, LAURA:
	Of Sport Fishing and Fishermen; NovDec. p. 1.
USSR established fish breeding station in;	BURNETT, ROBERT M.: Gravel System Holds Promise for Salmon Env
SeptOct. p. 65.	Gravel System Holds Promise for Salmon Fry
ARGENTINA	Incubation; MarApr. p. 21. CALABRESE, ANTHONY:
	How Some Pollutants Affect Embryos & Larvae
Whales, southern right discovered off ;	of American Oyster & Hard-Shell Clam; Nov.
NovDec. p. 13.	Dec. p. 66.
	Dec. p. 00.

AUTHORS & TITLES (cont.) COE, JAMES (and George Sousa): Removing Porpoise From a Tuna Purse Seine; Nov.-Dec. p. 15. DAMMANN, A. E. (and J.R. Sylvester): Pot Fishing in the Virgin Islands; Sept.-Oct. p.33. FLOYD, HILTON (and Harvey R. Bullis, Jr): Double-Rig Twin Shrimp-Trawling Gear Used in Gulf of Mexico; Nov.-Dec. p. 26. FOLSOM, WILLIAM B .: Japan's Frozen-Shrimp Imports Soar 2,000% in 10 Years; Mar.-Apr. p. 47. The Japanese Fishing Industry: 1971 Highlights; Jan.-Feb. p. 37. (and R. E. Neumann): The Fisheries of Sengal: 1971; Nov.-Dec. p. 85. GOTTSCHALK, JOHN S .: Longlines and Billfish; Nov.-Dec. p. 20. GRAJCER, DOV: Potential Market for Shrimp Heads; July-Aug. GREEN, R. E. (and F. J. Hester and D. A. Aasted): Experimental Drum Seining for Wetfish in California; Jan.-Feb. p. 23. GUTHRIE, JAMES F. (and Richard L. Kroger): Effect of Predators on Juvenile Menhaden in Clear & Turbid Estuaries. Nov.-Dec. p. 78 HESTER, F. J. (D. A. Aasted and R. E. Green): Experimental Drum Seining for Wettish in California; Jan.-Feb. p. 23. HIDU, HERBERT (and John G. Riley, & Richard J. Oysters: Reattachment as Method of Rearing Cultchless Hatchery Oysters; May-June p. 41. Sea Urchins: A New Fishery Develops in California; Sept.-Oct. P. 24. KNAGGS, ERIC H.: Major Purse-Seine Gear Changes in San Pedro Wetfish Fleet; May-June p. 11. KRAMER, DAVID (and Paul E. Smith): Seasonal and Geographic Characteristics of Fishery Resources; California Current Region: VIII Zooplankton; May-June. p. 33. KROGER, RICHARD L. (and James F. Guthrie): Effect of Predators on Juvenile Menhaden in Clear and Turbid Estuaries; Nov.-Dec. p. 78. LAURS, R. MICHAEL: NMFS Albacore Tuna Forecast and Research Plans for 1972; July-Aug. p. 36. LENARZ, WILLIAM H. (and Gary T. Sakagawa): American Participation in Tuna Fishery of Eastern Tropical Atlantic; Nov.-Dec. p. 55. LO CASCIO, NICHOLAS J. T. (and James E. Wright Jr.): The Impact of Genetics on the Trout Industry; Sept. - Oct. p. 31. LOVE, TRAVIS D. (and Brenda H. Minkler):

Studies of Salmonellae Potential in Catfish Feeds;

Studies of Salmonellae Potential in Catfish Feeds;

Predation by Bluefish on Flatfishes; July-Aug.

MINKLER, BRENDA H. (and Travis D. Love):

Trawl Studies Based on Bottom Current

Measurements; Nov.-Dec. p. 32.

MAHONEY, JOHN V. (and Fred E. Lux):

May-June p. 49. MOWBRAY, W. H. (and S.B. Saila):

May-June p. 49.

AUTHORS & TITLES MYREN, RICHARD T .: Marine Life Abundant Near Site of Proposed Alaskan Mill; Mar.-Apr. p. 25. NEUMANN, R. E. (and William B. Folsom): The Fisheries of Senegal: 1971; Nov.-Dec. p. 85. NOETZEL, BRUNO G .: New England Trawlermen Struggle To Survive; Sept. - Oct. p. 14. OLSON, FRED L .: Farm Credit Act of 1971: How It Affects Fishing Industry; Sept.-Oct. p. 3. RILEY, JOHN G. (and Richard J. Rowe, & Herbert Oysters: Reattachment as Method of Rearing Cultchless Hatchery Oysters; May-June p. 41. ROPES, JOHN W .: The Atlantic Coast Surf Clam Fishery: 1965-1969; July-Aug. p. 20. (and Allan M. Barker): The Atlantic Surf Clam Fishery - 1970; Sept-Oct. p. 36. (and Allan M. Barker & George E. Ward Jr.): The Atlantic Surf Clam Fishery - 1971; Nov.-Dec. p. 48. ROWE, RICHARD J. (and John G. Riley & Herbert Hidu): Oysters: Reattachment as Method of Rearing Cultchless Hatchery Oysters; May-June p. 41. SAILA, S. B. (and W. H. Mowbray): Trawl Studies Based on Bottom Current Measurements; Nov.-Dec. p. 32. SAKAGAWA, GARY T. (and William H. Lenarz): American Participation in Tuna Fishery of Eastern Tropical Atlantic; Nov.-Dec. p. 55. SMITH, PAUL E. (and David Kramer): Seasonal and Geographic Characteristics of Fishery Resources: California Current Region: VIII. Zooplankton; May-June. p. 33. SMOLOWITZ, RONALD JOEL: Shipboard Procedures To Decrease Lobster Mortality; May-June p. 44. SNEGOV, SERGEI: Arsenal of Ocean Fisheries; Mar.-Apr. p. 42. The Ocean - a Source of Tasty Foods; July-Aug. p. 47. SOUSA, GEORGE (and James Coe): Removing Porpoise From a Tuna Purse Seine; Nov.-Dec. p. 15. STERN, HERBERT JR. (and Bradford E. Brown): Status of Fish Stocks Off Northeastern United States; Nov.-Dec. p. 41. SYLVESTER, J. R. (and A. E. Dammann): Pot Fishing in the Virgin Islands; Sept.-Oct. p. 33. WARD, GEORGE E. JR. (and John W. Ropes & Allan M. Barker): The Atlantic Coast Surf Clam Fishery - 1971; Nov.-Dec. p. 48. WISE, JOHN P .: Gulf and South Atlantic Fisheries; Mar.-Apr. p. 9. The State of U.S. Fisheries in 1972; July-Aug. p. 9. WOLOTIRA, ROBERT J., JR: Shrimp Research Aboard Soviet Ship in Gulf of Alaska; Sept.-Oct. p. 46. WRIGHT, JAMES E., JR. (and Nicholas J. T. Lo Cascio): The Impact of Genetics on the Trout Industry;

Sept.-Oct. p. 31. ZAITSEV, VIKENTY:

Sept.-Oct. p. 64

Soviet Research, Marine Fish Can Be Cultivated;

Longlines and; NovDec. p. 20.	CHARTS/MAPS, NAUTICAL NMFS prepares North Atlantic marine fish
ALIFORNIA Fish food, biologist at La Jolla seeks to develop	JanFeb. p. 33. NOAA will chart Alaskan waters and study fish resources; JanFeb. p. 22.
artificial; July-Aug. p. 6. Drum seining for wetfish in, experimental; JanFeb. p. 23. San Pedro:	CHEN, T. P. Taiwan's fishery production rose 6% in 1971; MarApr. p. 59.
no. 1 in landings value, Cameron, La., in volume; MarApr. p. 5.	CHINA
purse-seine gear changes inwetfish fleet major; May-June p. 11. Seasonal & geographical characteristics of fishery	Japanese visit for business talks; SeptOct. p. 72.
resources: California current region: VIII -	CLAMS
zooplankton; May-June p. 33. Sea urchins: fishery develops in, new; SeptOct. p. 24. San Diego, fishery starts in; MarApr. p.36. Tuna, albacore, fishing south of San Francisco, NMFS predicts good; May-June p. 3.	Pollutants affect embryos & larvae of oyster and and hard-shell , how; NovDec. p. 66. Surf, Atlantic coast fishery, 1965-69, 1970, 1971; July-Aug. p. 20; SeptOct. p. 36; NovDec. p. 48.
U.S. cooperates with USSR in survey off; JanFeb. p. 21.	COLD STORAGE Japan - Taiyo is building cold storage in Cuba;
AMEROON	NovDec. p. 82.
Fishing industry - production increased steadily; July-Aug. p. 57.	COLUMBIA U.S. & sign Carribean fishing treaty; Sept Oct. p. 63.
ANADA	Ост. р. 00.
Atlantic provinces made record earning in 1971; May-June p. 53. Newfoundland landings fell 13% in 1971 but value rose; May-June p. 54.	COMMERCE, DEPARTMENT OF (See NOAA) Scientists seek to reduce cost of oceanographic data; SeptOct. p. 10.
Salmon:	COMPUTERS
Atlantic: British Columbia transplantation successful in; July-Aug. p. 56.	Japanese fishing firm plans to speed fishing operations; July-Aug. p. 52.
fishing curtailed; May-June p. 53.	CRABS
US & ; Great Lakes fishery falls and value rises in 1971;	Japan:
SeptOct. p. 6. lobster researchers meet; MarApr. p. 4.	Tanner: canned prices likely to increase; May-June p. 61 Bristol Bay production down; SeptOct.
sea urchin roe market, firms seek; SeptOct. p. 62. Whaling observer pact signed (North Atlantic) & Norway and Iceland; May-June p. 51.	p. 74. Picking machine is pickup for industry; July-Aug. p. 5.
CANNIKIN NUCLEAR TEST	
NMFS biologists make series of reconnaissance dives; May-June p. 4.	Japanese firm builds cold storage in; Nov Dec. p. 82.
CANNING	CULTURE(S)
S. Korea's marine-products industry grows; NovDec. p. 83.	Japan: yellowfin & bluefin tuna are successful; Mar.
CARP	Apr. p. 50.
Japanese skipjack vessels switching to as new bait; MarApr. p. 51.	yellowtail is no. 1 forin; JanFeb. p. 41.
new bart, mar. ripr. p. or.	DENMARK Salmon fishery, U.S. & agree on curtailing
CATCH Alaska forecasts 1972 salmon ; MarApr.	Atlantic; MarApr. p. 39. Shrimp & herring from 10% import surcharge,
p. 7. Menhaden, Gulf, sets record; MarApr. p. 6. World fish	exempts processes; JanFeb. p. 47.
World fish rose 10% in 1970; JanFeb. p. 34.	DRIFT BOTTLES
CATFISH Salmonellae potential infeeds, studies of; May-June p. 49.	"Talking" developed at Woods Hole; Sept Oct. p. 10.

Nov.-Dec. p. 41.

Double-rig twin shrimp-trawling , used in Gulf of Mexico; NovDec. p. 26. Purse-seine changes in San Pedro wetfish fleet; May-June p. 11. South African lobster fishery, new speeds; July-Aug. p. 57.	ICELAND Britain to refer dispute with to world court; MarApr. p. 39. Eats the most fish; MarApr. p. 39. Fishing limits extended 50 miles; SeptOct. p. 62. Japanese build 10 fishing vessels for; Jan Feb. p. 44. Trawlers:
GEHRINGER, JACK W. Replaces Whiteleather as director for the Gulf and South Atlantic Region of the NMFS; JanFeb.p. 6.	stern: added 27; May-June p. 55. builds 21; JanFeb. p. 46. Whaling observer pacts signed (North Atlantic)
GENETICS Impact on trout industry; SeptOct. p. 31.	& Canada and Norway; May-June p. 51.
GRAVEL SYSTEM Salmon fry incubation, holds promise for; MarApr. p. 21.	IMPORT(S) Denmark exempts processed shrimp & herring from 10% surcharge; JanFeb. p. 47. Japan:
GREAT BRITAIN Iceland to world court,	fishery rose sharply in 1971; MarApr. p. 54. shrimp: continue record trend; SeptOct. p. 73. frozen soar 2,000% in 10 years; MarApr. p. 47.
GREAT LAKES Superior & Michigan, 5 million lake trout planted in; May-June p. 6. Value rises, 1971 fishery falls; SeptOct. p. 6.	INDIA Fisheries offer investment opportunitites; July- Aug. p. 54. S. Korea, joint fishing venture with, SeptOct. p.76. INDIAN OCEAN
GREEK Fishing fleet and market, the; MarApr. p. 46.	Skipjack in, Kaigai Gyogyo of Japan to fish; MarApr. p. 51. USSR spiny lobster fishery in; SeptOct. p. 67.
GROUNDFISH 'Albatross IV' conducts survey off eastern United States; MarApr. p. 10.	INTERNATIONAL World fish catch rose 10% in 1970; JanFeb. p. 34.
GUIANAS Japan: Shrimp: trawlers approved for, more; NovDec. p. 82. will expand fishing off; JanFeb. p. 44.	INTERNATIONAL ATLANTIC SALMON FOUNDATION (IASF) Secretariat for North American Salmon Council, provides; May-June p. 2. INTERNATIONAL COMMISSION FOR THE NORTH- WEST ATLANTIC FISHERIES (ICNAF) Proposes 1973 quota levels; July-Aug. p. 43.
GULF OF MEXICO Double-rig twin shrimp-trawling gear used in; NovDec. p. 26.	INVESTMENT(S) India offers fisheries opportunities; July-Aug. p. 54. Nicaragua offers some opportunity; NovDec. p. 84.
HADDOCK Spawn in captivity; MarApr. p. 34.	IRELAND Catch & exports up in 1971; May-June p. 57.
HATCHERY Atlantic salmon experimental planned; NovDec. p. 11.	ITALY Mercury tolerance level,sets stricter; Jan Feb. p. 47.
HAWAII Billfish, first international symposium in;	Tuna packing industry making progress; Sept Oct. p. 69.
SeptOct. p. 58. Mullet, scientists control reproduction of; May- June p. 8.	JAPAN Abalone,cultivates artificially; July-Aug.
HERRING Denmark exempts processed shrimp & from 10% import surcharge; JanFeb. p. 47. Japanese fishing in eastern Bering Sea; JanFeb. p. 42.	p. 53. Alaska: fishery team to survey in summer 1973; Nov Dec. p. 82. NMFS agent boards crab factoryship off ; July-Aug. p. 51.

APAN (cont.)	JAPAN
Antarctic, krill fishing expedition to; NovDec.	Salmon:
p. 82.	mothership:
Australia and signed protocol on New Guinea	fishery means research for NMFS; MarApr. p. 19.
fishery development; SeptOct. p. 73.	fleets depart for N. Pacific; May-June p. 61.
Catch: marine fisheries set record in 1971; NovDec.	red, culture increased to offset dwindling catches
p. 81.	JanFeb. p. 42.
tops 9.7 million metric tons, 1971; July-Aug. p.51.	USSR &agree on 1972 quotas; May-June
Cold storage in Cuba, Taiyo is building; NovDec.	p. 51.
p. 82.	vessels subsidized by Government, withdrawal of
Computers to speed fishing operations, fishing firm plans; July-Aug. p. 52.	SeptOct. p. 73. Saury:
Crab:	fishing off:
Bristol Bay:	Aleutians, good; SeptOct. p. 71.
fleets depart for; MarApr. p. 55.	U.S., to be reduced sharply; MarApr. p. 54.
tanner:	U.S. west coast, two firms cease; MarApr.
canned prices likely to increase; May-June	p. 54. season forecast for coastal fishery; SeptOct.
p. 61. production down; SeptOct. p. 74.	p. 71.
Dollar-yen revaluation disturbs fishing industry;	Shipboard scale developed, special; MarApr. p. 5
JanFeb. p. 43.	Shrimp:
Exports:	Africa, competition sharpens in; MarApr. p. 52
government's trade control affects fishery; Nov	fishing off Guianas will expand; JanFeb. p. 44. imports continue record trend; SeptOct. p. 73.
Dec. p. 81. predicted, decline in 1972; May-June p. 60.	in early 1972, pay more for ton of; July-
value of fishery, rose 4.2% in 1971; SeptOct.	Aug. p. 53.
p. 72.	trawlers approved for Guianas. NovDec. p. 82.
Fish culture:	Squid catch off U.S. west coast was low; JanFeb.
experiments, water from atomic plant to be used in; SeptOct. p. 71.	p. 43. South American fisheries surveyed; SeptOct. p. 7.
mackerel, frigate, survived after hatching; Sept	Surinam- fisheries company organized in
Oct. p. 75.	Paramaribo; SeptOct. p. 74.
thermal effluent used for; MarApr. p. 56.	Taiwan, will severed diplomatic ties affect fishing
Fishery:	industry? NovDec. p. 81.
agency budget nears \$300 million; SeptOct. p.75.	Trawlers:
aid mission to visit 'third world'; MarApr. p. 56. information center opens; May-June p. 60.	gather off New England; SeptOct. p. 76. off New Zealand less successful; July-Aug. p. 54
Fishing industry, the: 1971 highlights; JanFeb.	Tuna:
p. 37.	bluefin cultures are successful; MarApr. p. 50.
Flounder, roundnose, hatched experimentally; Mar	canned:
Apr. p. 56.	exports to U.S., situation eases on; May-June
frozen: food industry boomed in 1971; SeptOct. p. 75.	p. 61. sales to U.S., resume; MarApr. p. 54.
tuna exports rose in 1971; MarApr. p. 53.	fleet:
Herring fishing in eastern Bering Sea; JanFeb.	decreases in 1971; SeptOct. p. 72.
p. 42.	reorganization planned; SeptOct. p. 71.
lceland, builds 10 fishing vessels for; Jan	flown from New York to ; SeptOct. p. 75.
Feb. p. 44. Imports:	longliners in action, 230; July-Aug. p. 52.
fishery products, becomes major importer	medical and supply ship launched byfeder-ation. NovDec. p. 82.
of; May-June p. 59.	Philippines,buys from; NovDec. p. 83.
frozen shrimp soars 2,000% in 10 years; Mar	skipjack:
Apr. p. 47. rose sharply, 1971 fishery; MarApr. p. 54.	fishery, new group coordinates; JanFeb. p. 43
Joint venture with Malta & Libya planned; Sept	fishery's live-bait problem; JanFeb. p. 41. from Ponape, U.S. Trust Territory firm will
Oct. p. 70.	fish; MarApr. p. 51.
Minke whale fleet attains goal of 3,000 whales;	Kaigai Gyogyo to fish in Indian Ocean; Mar
MarApr. p. 55.	Apr. p. 51
Nichiro head stresses 'systematization', new; MarApr. p. 57.	hatching of is a success; Sept. Oct. p. 72
New York office to service tuna longliners; May-	vessels switching to carp as new bait; MarApr. p. 51.
June p. 60.	yellowfin cultures are successful; MarApr. p. 50
Ocean dumping submitted, recommendations on;	Undersea craft, unique, to be tested; SeptOct. p. 70
MarApr. p. 52.	U.N. conference on whales, prepare for; Mar
Plastic fish habitat developed; July-Aug. p. 53. Pollock fishing grounds, new; SeptOct. p. 76.	Apr. p. 37.
В в таме, ден, оср., ост. р. 10.	United States: Australia and pearlyenture profitable: July-
	Australia andpearl venture profitable; July-Aug. p. 56.

JAPAN (cont.)	LOUISIANA
United States (cont.): renegotiate 2 North Pacific fishing agreements;	Cameron, no. 1 in landings volume, San Pedro in value; MarApr. p. 5.
NovDec. p. 3. Vessels:	MACKEREL
explore off Peru; MarApr. p. 52.	Japanese frigate survived only ten days;
exports increase; May-June p. 59.	Sept Oct. p. 75.
licenses issued in 1971 for construction of 20%	
more; SeptOct. p. 71.	MALTA
skipjack, tuna, 1971 construction rose; July-Aug. p. 52.	Japanese plan joint venture withand Libya; SeptOct. p. 70.
Visits China for business talks; SeptOct.	MARINE LIFE
p. 72.	Alaskan Mill, abundant near site of proposed
Yellowtail is no. 1 cultured fish in; JanFeb. p. 41.	MarApr. p. 25.
Whaling: fleets depart for N. Pacific; May-June p. 61.	MARKETING
observer pacts signed & USSR; & U.S.; May-June p. 51.	FAO reports on fish in Mediterranean area; SeptOct. p. 62.
KRILL Japanese fishing expedition to Antarctic Ocean;	MARLIN Tagging in North Atlantic; SeptOct. p. 9.
NovDec. p. 82.	MA DAGA D
	MARMAP NMFS plankton sorters to aid in ; SeptOct.
LANDINGS	
Canada, Newfoundland fell 13% in 1971 but	p. 12.
value rose; May-June p. 54.	MARYLAND
San Pedro no. 1 in value, Cameron, La., in	Sportfishing '73 forum & exposition held in Ocean
volume; MarApr. p. 5.	City; NovDec. p. 6.
Tuna, albacore,decline from 1970; Jan	City, Nov. Dec. p. v.
Feb. p. 9.	MENHADEN
LATIN AMERICA	Effect of predators on juvenile in clear and
Nicaragua offers some investment opportunity;	turbid estuaries. NovDec. p. 78.
NovDec. p. 84.	Food fish facts; JanFeb. p. 48.
1101. BCC. p. 01.	Gulf catch sets record; MarApr. p. 6.
LIBYA	
Japanese plan joint venture with and Malta;	MEXICO
SeptOct. P. 70.	Fish industry gained 7% in 1971; May-June p. 54.
	Fishermen:
LICENSES	reap record catch; SeptOct. p. 77. start program to train; July-Aug. p. 50.
Alaska's salmon-fishery licensing soars; Mar	Guaymas' proposed industrial park for fishing
Apr. p. 7.	industries; SeptOct. p. 77.
Japanese vessel construction issued in 1971,	industries, Sept. Oct. p. 11.
20% more; SeptOct. p. 71.	MONETARY UNITS
LOBSTERS	Dollar-yen revaluation disturbs fishing industry;
Australia rock- season looks promising;	JanFeb. p. 43.
MarApr. p. 59.	
Program planned to prevent depletion of ;	MORATORIUM
SeptOct. p. 1.	Sardines, Pacific, recommended,on northern
Secretary Peterson calls for State-Federal	stock of; MarApr. p. 6.
policy planning committee; SeptOct. p. 1.	
Shipboard procedure to decrease mortality;	MORTALITY
May-June p. 44.	Fur seal pups, is important to management of herd
So they built a better trapfor; MarApr.	measuring of; MarApr. p. 29.
p. 23.	NATIONAL MARINE FISHERIES SERVICE (NMFS)
South African fishery, new gear speeds; July-Aug.	Alaska:
p. 57. USSR:	holds pot fishing workshops; MarApr. p. 6.
& U.S. extend informal agreements on ;	Japanese crab factoryship off, agent boards;
SeptOct. p. 2.	July-Aug. p. 51.
spiny fishery in Indian Ocean; SeptOct.	participates in sea survey off North slope; Sept.
p. 67.	Oct. p. 8.
U.S. and Canadian researchers meet; MarApr.	Albacore fishing south of San Francisco, predicts
p. 4.	good; May-June p. 3.
	Biologists make series of reconnaissance dives
LONGLINES	after Cannikin nuclear test; May-June p. 4.
Billfish and; NovDec. p. 20.	Fishery Facts, newest publications of; Nov.
	Dec. p. 7.

NATIONAL MARINE FISHERIES SERVICE (cont.) Foreign market coverage increases; SeptOct. p. 2.	NORTH ATLANTIC Whaling observer pact signed (Norway, Canada, and Iceland); May-June p. 51.
Gehringer replaces Whiteleather as director of South Atlantic Region; JanFeb. p. 6. Japanese mothership salmon fishery means re- search for; MarApr. p. 19. Market news report,surveys readers of;	NORTH SEA Research shows off West Norway is cleaner; May-June p. 52.
NovDec. p. 8. North Atlantic marine fish chart,prepares; JanFeb. p. 33.	NORWAY Antipollution pact, 12 European countries in Oslo, sign; MarApr. p. 38.
Plankton sorters to aid MARMAP; SeptOct. p. 12. Roedel, Philip M. discussesnew directions; JanFeb. p. 1. Royce, William, Dr. named Associate Director;	Fisheries Fair, August 14-20; May-June p. 52. Fisheries prospered in 1971; JanFeb. p. 46. Fishermen down 40% in 10 years; May-June p. 55. Fish oil production rose 3% in 1971; May-June p. 55.
JanFeb. p. 5. Sport fish statistics program, is developing national; SeptOct. p. 9.	Floating fish meal oil factory,builds; MarApr. p. 40. Frozen fish exports rise 41% in value; May-June
State-Federal relations, names Takashi Miyahara Chief of; MarApr. p. 4. Whiteleather retires from ; JanFeb. p. 6.	p. 55. 'Give a man a fish hook'; May-June p. 55. Lofoten fisheries are best since 1951; May-June p. 55.
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) (see Dept of COMMERCE; NATIONAL MARINE FISHERIES SERVICE)	Purse seiner to fish tuna off Africa,first; JanFeb. p. 46. Whaling observer pact signed (North Atlantic)
Alaska waters & study fish resources, will chart; JanFeb. p. 22. Dr. Robert M. White: administrator, says ocean priorities are chang-	& Canada & Iceland; May-June p. 51. OCEAN Source of tasty foods; July-Aug. p. 47.
ing; May-June p. 22. head vows to protect marine resources; Mar Apr. p. 1.	OCEAN DUMPING Recommendations submitted on; MarApr. p. 52.
Tidal current speed,develops simplified method to calculate; July-Aug. p. 8.	OCEANOGRAPHIC Scientists seek to reduce cost of data; Sept
NEW ENGLAND Japanese trawlers gather off p. 76. SeptOct.	Oct. p. 10.
Marine resources, the future of; JanFeb. p. 13.	OCEAN PRIORITIES NOAA head says they are changing; May-June p. 1.
Trawlermen struggle to survive; SeptOct. p. 14.	OREGON Basket cockle is exposed by researchers;
NEW GUINEA Japan signs protocol with Australia on fishery development; SeptOct. p. 73.	MarApr. p. 8. Fishermen profiled; MarApr. p. 32. Salmon pack rose sharply, Washington-
NEW YORK Tuna flown fromto Japan; SeptOct. p. 75.	MarApr. p. 5. Upwelling scrutinized on coast of; SeptOct. p. 10.
NEW ZEALAND Fishing cadet course initiated in; Sept Oct. p. 78.	ORGANIZATION OF AMERICAN STATES (OAS) Peru, meeting of government fisheries experts in SeptOct. p. 77.
FAO holds seminar in on ferro-cement vessel; May-June p. 52. Japanese trawlers off less successful: July-	ORGANIZATION FOR ECONOMIC COOPERATION & DEVELOPMENT (OECD)
Aug. p. 54. Oysters: dredgingunique industry; May-June p. 63. Japanese, appears in; SeptOct. p. 78.	Fish catch rose in 1971reports; July-Aug. p. 45.
	OYSTERS New Zealand:
Offers some investment opportunity; NovDec. p. 84.	dredging, unique industry; May-June p. 63. Japanese appears in; SeptOct. p. 78. Pollutants affect embryos & larvae of and hard-shell clam, how; NovDec. p. 66.
NORRIS, RUSSELL T. New England's marine resources, the future of; JanFeb. p. 13.	Reattachment as method of rearing cultchless hatchery; May-June p. 41.

PACIFIC Weather service in 1973 for deep-water sailors, new; NovDec. p. 14.	PROTEIN French to testfrom petroleum; JanFeb. p. 47.
PACKAGED FOOD LABELS FDA proposes nutritional values be put on; MarApr. p. 3.	PURSE SEINE Porpoise, removing from NovDec. p. 15.
PEARLS U.S., Australia, and Japanese venture profitable; July-Aug. p. 56.	RECIPES Fish flips with chips; JanFeb. p. 51. Salmon, canned; SeptOct. p. 83. Slim and trim with succulent seafood; JanFeb.
PERU Governmental fisheries experts of OAS meet in ; SeptOct. p. 77. Japanese vessels (3) explore off p. 52. MarApr.	p. 50. Sweet 'n' sour 'n' saucy seafood; NovDec. p. 92. Tuna: try a tempter today; MarApr. p. 63. sing a song of seafoods at breakfast time; Nov Dec. p. 90.
PETER G. PETERSON Secretary of Commerce calls for State-Federal lobster policy planning committee; SeptOct. p.1.	REVALUATION Japan's dollar-yen disturbs fishing industry; JanFeb. p. 43.
PETROLEUM French to test protein from; JanFeb.p.47.	ROEDEL, PHILIP M. Director of NMFS discusses new directions; Jan Feb. p. 1.
PHILIPPINES Japan buying tuna from; NovDec. p. 83.	ROTHSCHILD, BRIAN J., DR. Named Director NMFS Southwest Fisheries Center
PLANKTON SORTERS NMFS to aid in MARMAP; SeptOct. p. 12.	July-Aug. p. 6.
PLASTIC Japanese developed fish habitat; July-Aug. p. 53.	Named NMFS Associate Director; JanFeb. p. 5.
POLAND France orders 13 stern trawlers from; May- June p. 58.	SALMON Acoustical survey to find in Lake Washington; SeptOct. p. 11. Alaska:
POLLOCK Japanese fleets found newfishing grounds; SeptOct. p. 76.	fishery licensing soars; MarApr. p. 7. forecasts 1972 catch; MarApr. p. 7. pink stocks restored to stream; NovDec. p. 5.
POLLUTANTS Affect embryos & larvae of American oyster and hard-shell clam; NovDec. p. 66.	saltwater, to raisein; SeptOct. p. 8. Atlantic: aided by recent actions; July-Aug. p. 2. U.S. & Denmark agree on curtailing fishery; Mar
POLLUTION Antipollution pact, 12 European countries in Oslo, Norway sign; MarApr. p. 38. Pacific northwest coastal—studies available; MarApr. p. 6.	Apr. p. 39. Canada: Atlantic fishing curtailed; May-June p. 53. British Columbia transplants successfully in Atlantic; July-Aug. p. 56. Canned can do; SeptOct. p. 83.
PONDS Fish culture in Japan; thermal effluent used for; MarApr. p. 56.	Gravel system holds promise forfry incubation; MarApr. p. 21. Japan: vessels, government subsidized the withdrawal of
PORPOISE Tuna purse seine, removing from, NovDec. p. 15.	; SeptOct. p. 73. & USSR agree on 1972quotas; May-June p. 51. mothership:
POT FISHING NMFS Alaska holds workshops; MarApr. p. 6.	fishery means research for NMFS; MarApr. p. 19. fleets depart for N. Pacific; May-June p. 61. North American Council provides Secretariat for
Virgin Islands, in; SeptOct. p. 33.	International Atlantic Foundation. May- June p. 2.
PRICES Belgium: catch rose, fell; May-June p. 58. Food may rise 4½% in 1972; MarApr. p. 3. Retail fish index above last year; SeptOct. p. 13.	Red- janFeb. p. 42. USSR, White & Barents Sea basins, acclimatizing to; SeptOct. p. 66. Washington-Oregon pack rose sharply; MarApr. p. 5.

SALMONELLAE SHRIMP Catfish feeds, studies of potential in; May-Alaska: is no. 2. catch; Jan.-Feb. p. 21. June p. 49. Kodiak catch tops 100 million pounds; Jan.-Feb. p. 20. Denmark exempts processed & herring from SALTWATER 10% import surcharge; Jan.-Feb. p. 47. Alaska to raise salmon in ; Sept. -Oct. p. 8. Catch by U.S. anglers increases; Nov.-Dec. Double-rig twin trawling, gear used in Gulf of Mexico; Nov.-Dec. p. 26. Sportfishing '73 forum & exposition held in Ocean Japan: competition for sharpens in Africa; Mar. -City, Maryland; Nov.-Dec. p. 6. Apr. p. 52 fishing off Guianas, will expand ; Jan.-Feb. Moratorium on northern stock of Pacific p. 44. recommended; Mar.-Apr. p. 6. Imports: continue record trend; Sept.-Oct. p. 73. soar 2,000% in 10 years, frozen- ; Mar.-SAURY Japan: Apr. p. 47. paid more for ton of _____ in early 1972; Julyfishing good off Aleutians; Sept.-Oct. p. 71. fishing off U.S .: Aug. p. 53. to be reduced sharply; Mar.-Apr. p. 54. Potential market for heads; July-Aug. p. 4. firms (2) cease ____west coast; Mar.-Apr. Rearing-pond population of, success in estimating; Nov.-Dec. p. 12. season forecast for coastal fishery; Sept.-Oct. Scottish and shellfish boom; May-June p. 56. U.S.: vessels, 12, licensed for distant-water fishing; & Brazil agree on fishing; May-June p. 51. Sept.-Oct. p. 70. fleet's record-setting catches continued; Jan .-Feb. p. 19. USSR, research in Gulf of Alaska; Sept.-Oct. p.46. Food fish facts; Jan.-Feb. p. 52. SOUTH AFRICA Lobster, gear, new, speeds fishery; July-Aug. p.57. Shrimp and shellfish boom; May-June p. 56. SOUTH AMERICA SEA GRANT PROGRAM Japanese survey fisheries; Sept.-Oct. p. 70. Scientists in Hawaii control reproduction of mullet; May-June p. 8. SOUTH KOREA Deep-sea fleet to 800 by 1976, plans to in-SEA URCHIN crease; Mar.-Apr. p. 59. California: Exports on target Jan.-July 1972; Sept.-Oct. p. 76. fishery starts in San Diego; Mar.-Apr. p. 36. FAO sets up skipjack training in ; Sept.-Oct. new fishery develops in; Sept.-Oct. p. 24. p. 62. Roe markets, U.S. & Canadian firms seek; Sept .-Fishing industry grows remarkably; May-June. Oct. p. 62. p. 55. India, joint fishing venture with; Sept.-Oct. p. 76. SEINING, DRUM Korean Marine Industrial Development Corporation Wetfish in California, experimental (KMIDC), plans to transfer to private ownership; Feb. p. 23. Sept.-Oct. p. 76. Marine-products canning industry grows; Nov.-Dec. p. 83. The fisheries of _____, 1971; Nov.-Dec. p. 85. Pollock, 21 trawlers withdraw from fishery; Sept .-Oct. p. 76. SETTE, OSCAR, DR. Marine scientist dead at 72; July-Aug. p. 7. SOUTHWEST FISHERIES CENTER Rothschild, named Director of ; July-Aug. SHARK p. 6. Tagged blue recaptured 2,000 miles from tagging sit; Mar.-Apr. p. 8. SPORT FISH Vertebra; how to tell a multimillion year; Nov.-NMFS develops national statistics program on Dec. p. 14. ; Sept.-Oct. p. 9. SHELLFISH SPORT FISHING Scottish shrimp and boom; May-June p. 56. Saltwater exposition held in Ocean City, Maryland in 1973; Nov.-Dec. p. 6. SHIPBOARD SCALE Fishermen and _____, Nov.-Dec. p. 1. Japanese develop a special ____; Mar.-Apr. p.56.

SPORT FISHING (cont.) Catch increases by U.S. saltwater anglers; Nov Dec. p. 6.	TRAWLER(S) Iceland is building 21 stern ; JanFeb. p. 46. Japanese gather off New England; SeptOct. p. 76.
SQUID	
Japanese catch off U.S. west coast was low; JanFeb. p. 43.	TRAWLING Shrimp, double-rig twin gear used in Gulf of Mexico, NovDec. p. 26.
STATE-FEDERAL RELATIONS	McArco, 1404. Dec. p. 20.
NMFS names Chief (Takashi Miyahara) of; MarApr. p. 4.	TROUT Food fish facts on lake ; July-Aug. p. 62.
STOCKHOLM Conference on human environment studies declining marine life in Baltic; SeptOct. p. 63.	Genetics on the industry, the impact of; SeptOct.p. 31 Lakes Superior & Michigan, 5 million planted in; May-June p. 6.
	TUNA
STURGEONS USSR acclimatizing to the Baltic; SeptOct. p. 65.	Albacore: fishermen and NMFS search for; July-Aug.
p. 65.	p. 3. landings decline from 1970; JanFeb. p. 9.
SURINAM Japan- fisheries company organized in Para-	NMFS:
maribo; SeptOct. p. 74.	plans for 1972forecast and research; July Aug. p. 36.
SYSTEMATIZATION	predicts good fishing south of San Francisco;
Japan, new Nichiro head stresses; Mar	May-June p. 3. summer landing near record; May-June p. 53.
Apr. p. 57.	Asia conference hears management problems; May
	June p. 55.
TAG	Fishery of Eastern Tropical Atlantic, American
Blue shark, (tagged), recaptured 2,000 miles from	participation in; NovDec. p. 55.
tagging site; MarApr. p. 8.	Fishery developments; MarApr. p. 54.
TP A TALL A DI	Italy, packing industry making progress in; Sept
TAIWAN Fishery production rose 6% in 1971; MarApr.	Oct. p. 69.
p. 59.	Japan:
Japan, will severed diplomatic ties affect fishing	buying from Philippines; NovDec. p. 83.
industry? NovDec. p. 81.	exports to U.S., situation eases on; May-June
Tuna long liners in operation, 400; July-Aug. p.55.	p. 61.
MULATURA A MALIPIA	sales to U.S. resumed; MarApr. p. 54.
TEMPERATURES	culture of yellowfin & blue is successful;
Fish culture-ponds, thermal effluent used for, in Japan; MarApr. p. 56.	MarApr. p. 50.
5 apan, Mai. Api. p. 50.	federation launches medical and supply ship; Nov.
TERRITORIAL WATERS	Dec. p. 82. fleet reorganization planned; SeptOct. p. 71.
Mauritania extends to 30 miles; SeptOct.	flown from New York to; SeptOct. p. 75.
p. 63.	frozen exports rose in 1971; MarApr. p. 53.
TIDES	longliners (230) in action; July-Aug. p. 52.
NOAA download simplified mathed to coloulate	New York office to servicelongliners opened
NOAA develops simplified method to calculate tidal current speed; July-Aug. p. 8.	May-June p. 60.
tidal current speed, buly hug, p. o.	Norway's first purse seiner to fishoff Africa; JanFeb. p. 46.
TRADE CONTROL	Skipjack:
Japan, will severed diplomatic ties with Taiwan	FAO sets up training center in S. Korea;
affect fishing industry? NovDec. p. 81.	Sept Oct. p. 62.
MD A INING GRAPHED	Fishery, new group coordinates; JanFeb. p. 43.
TRAINING CENTER	Japan:
FAO sets up skipjack tuna in S. Korea; SeptOct. p. 62.	firm will fish from Ponape, U.S. Trust
Oct. p. 02.	Territory; MarApr. p. 51.
TRAP	fishery's live-bait problem; JanFeb. p. 41. Kaigai Gyogyo to fish in Indian Ocean; Mar
Lobsters, so they built a better for; Mar	Apr. p. 51.
Apr. p. 23.	hatching of is a success; SeptOct. p. 72.
MDAINY CHANDANA	vessels switching to carp as new bait; MarApr
TRAWL STUDIES	p. 51.
Bottom current measurements, based on;	scientists cautions against optimism about;
NovDec. p. 32.	JanFeb. p. 44.
TRAWLERMEN	TURBOT
New England struggle to survive; SeptOct.	United Kingdom reports that can be farmed
p. 14.	profitably; SeptOct. p. 67.

	TINTED COLUMNS
UNDERSEA CRAFT Japan plans test on unique; SeptOct. p. 70.	UNITED STATES Dollar-yen revaluation disturbs fishing industry;
USSR 'Amfibia', new vehicle developed by; Sept-Oct. p. 67. 'Atlantik' prototype tested; SeptOct. p. 65. Alaska, shrimp research aboard ship in Gulf of; SeptOct. p. 46. Black Sea, artificial fertilization & incubation of flatfish in; SeptOct. p. 66. Fish breeding station in Arctic, establishing; SeptOct. p. 65. Fish mince & fish protein concentrate production increased; SeptOct. p. 67. Fisheries production, pledge to "overfulfill"; Sept	JanFeb. p. 43. Eels to Britain, firm flies; MarApr. p. 8. Fishery product situation, the 1972; NovDec. p.4. Japan: renegotiate 2 North Pacific fishing agreements; NovDec. p. 3. saury fishing off: to be reduced sharply; MarApr. p. 54. west coast, firms (2) cease; MarApr. p. 54. squid catch off west coast was low; Jan Feb. p. 43. Lobster agreements, Soviets & extend informal; SeptOct. p. 2.
Oct. p. 65. Lobster, spiny, fishery in Indian Ocean; SeptOct. p. 67. Mussel breeding in Strait of Kerch; SeptOct. p. 66. Research, marine fish can be cultivated; SeptOct. p. 64.	NMFS: publications, newest, fishery facts; NovDec.p.7. surveys readers of its Market News Reports; NovDec. p. 8. Status of fish stock off northeastern Dec. p. 41.
Salmon: acclimatizing to White & Barents Sea basins; SeptOct. p. 66. Japan & agree on 1972 quotas; May-June p. 51.	Salmon: Atlantic: experimental hatchery planned; NovDec. p. 11. fishery, & Denmark agree on curtailing; MarApr. p. 39. questions and answers; NovDec. p. 9.
Sturgeons acclimatized to Baltic; SeptOct. p. 65. U.S. & : cooperate in survey off California; JanFeb.p.21. lobster agreements,extend informal; Sept	pink stocks restored to Alaska stream; NovDec. p. 5. Shark vertebra, how to tell a multimillion year ; NovDec. p. 14.
Oct. p. 2. 'Vostok', world's largest fishery vessel; SeptOct. p. 65. Whaling observer pacts signed; Japan & ; May-June p. 51.	Shrimp: Brazil & agree on fishing; May-June p. 51. fleet's record-setting catches continued; Jan Feb. p. 19. rearing-pond population of, initial success in es-
UNITED KINGDOM Aquaculture, genetic engineering to improve; Sept Oct. p. 68. Marine fish farming progresses; May-June p. 56. Catch steady, value up in 1971; July-Aug. p. 46. OECD, reports 1971 good year for fishing industry in; SeptOct. p. 68. Turbots can be farmed profitably; SeptOct. p. 67.	timating; NovDec. p. 12. Sport fishing & fishermen; NovDec. p. 1. Sport fishing, '73 forum and expo, Ocean City, Md.; NovDec. p. 6. State of fisheries in 1972, the; July-Aug. p.9. Tuna: albacore, fishermen and NMFS search for; July-Aug. p. 3. Japanese resume canned sales to ; Mar
UNITED NATIONS Whales, Japanese prepare forconference on; MarApr. p. 37.	Apr. p. 54. USSR in survey off California, cooperates with; JanFeb. p. 21. Weather service in 1973 for Pacific deep-water
U.S. ENVIRONMENTAL PROTECTION AGENCY Artificial ocean to test new oil-spill clean-up equipment; July-Aug. p. 8.	sailors, new; NovDec. p. 14. Whales, southern right, discovered off Argentina; NovDec. p. 13. Whaling observer pacts signed & Japan; May-
UNITED STATES 'Albatross IV' conducts groundfish survey off eastern , MarApr. p. 10. Australia, and Japanese pearl venture pro- fitable; July-Aug. p. 56. Canada &	June p. 51. U.S. TRUST TERRITORY OF THE PACIFIC ISLANDS Japanese firm will fish skipjack from Ponape, MarApr. p. 51.
Great Lakes fishery falls, value rises in 1971; SeptOct p. 6. lobster researchers meet; MarApr. p. 4. sea urchin roe markets, firms seek; SeptOct.	UPWELLING Scrutinized on Oregon coast; SeptOct. p. 10. VESSELS Fishing
p. 62. Catch by saltwater anglers increases; Nov Dec. p. 6. Colombia & sign Carribean fishing treaty; SeptOct. p. 63.	Fishing assistance program approved applications to construct 83 (Canadian Dept. of Environmental Fisheries Service); May-June p.54. FAO holds seminar in New Zealand on ferrocement; May-June p. 52. France orders 13 stern trawlers from Poland; May-June p. 58.

ESSELS (cont.) Greek fishing fleet and market, the; MarApr.	WASHINGTON Salmon:
p. 46.	acoustical survey to find in Lake; Sept
Iceland is adding 27 trawlers; May-June p. 55.	Oct. p. 11.
Japan:	pack rose sharply,Oregon; MarApr.p.5.
builds fishing for Iceland; JanFeb. p. 44.	WEATHER
crab:	Pacific deep-water sailors, new service in
fleets depart for Bristol Bay; MarApr. p. 55. NMFS boards factoryship off Alaska; July-Aug.	1973 for; NovDec. p. 14.
p. 51.	WETFISH
exports increase; May-June p. 59.	California:
licenses issued in 1971, 80% morecon- struction; SeptOct. p. 71.	drum seining forin experimental; Jan Feb. p. 23.
minke whale fleet attains goal of 3,000 whales; MarApr. p. 55.	purse-seine gear changes in San Pedro fleet; May-June p. 11.
shrimp trawlers approved for Guianas, more; NovDec. p. 82.	WHALE(S)
Peru, 3explore off; MarApr. p. 52.	Graycensus down 15%; MarApr. p. 5.
salmon: mothership fleets depart for N. Pacific; May-	Japan: minke fleet attains goal of 3,000 ; Mar
June p. 61.	Apr. p. 55.
withdrawal of subsidized by government; SeptOct. p. 73.	prepare for U.N. conference on; MarApr p. 37.
saury fishing, 12licensed for distant-water; SeptOct. p. 70.	Southern rightdiscovered off Argentina; Nov. Dec. p. 13.
tuna:	
fleet decreases in 1971; SeptOct. p. 72. fleet reorganization planned; SeptOct. p. 71.	WHALING Japanese fleets depart for N. Pacific; May-June
longliners in action, 230; July-Aug. p. 52.	p. 61.
New York office to service longliners, opening; May June p. 60.	Observer pacts signed, Japan & USSR, Japan & U.S North Atlantic (Norway, Canada, Iceland); May-
skipjack: construction permits rose in 1971; July-Aug.	June p. 51.
p. 52. switching to carp as new bait; MarApr.p. 51.	WHITE, ROBERT M., Dr. NOAA:
undersea craft, unique, to be tested; SeptOct.	head says ocean priorities are changing; May-
p. 70. Norway's first purse seiner to fish tuna off Africa;	June p. 1. head vows to protect marine resources; Mar
JanFeb. p. 46.	Apr. p. 1.
S. Korea plans to increase deep-sea fleet to 800	WHITE EATHER D. T.
by 1976; MarApr. p. 59. Taiwan, tuna long liners in operation, 400; July-Aug. p. 55.	WHITELEATHER, R. T. Retires from NMFS; JanFeb. p. 6.
USSR:	WORLD
'Atlantik' prototype tested; SeptOct. p. 65. 'Vostok' world's largest fishery vessel; Sept	Fish catch rose 10% in 1970; JanFeb. p. 34.
Oct. p. 65.	ZOOPLANKTON
TIRGIN ISLANDS	Seasonal & geographic characteristics of fishery resources: California Current Region: VIII;
Pot fishing in; SeptOct. p. 33.	May-June p. 33.